































SURFMEPP Mission



Provides:

- Centralized surface ship life cycle maintenance engineering
- Ship Class maintenance and modernization planning
- Management of maintenance strategies aligned with and responsive to National, Fleet, Surface TYCOM and NAVSEA needs and priorities

Develops and issues:

- Baseline Availability Work Packages for CNO availabilities
- Supporting tools and processes to capture and analyze maintenance history, execution and return cost data for every availability



SURFMEPP Footprint





JRMC Detachment
Yoko & Sasebo

At full strength SURFMEPP will have a 240 person staff to support surface maintenance processes and requirements



What SURFMEPP Delivers



- Library of technically-based requirements
- Accurate assessment of each ship "fit for fight/fit for service"
- Budget for what needs to be done
- Maintenance planned in advance
- Modernization and emergent repairs integrated
- Document Condition

- Eliminates tribal knowledge and deckplate decisions
- Readiness measured in capability. ISO tactical and strategic planning
- Improves budget fidelity
- Reduces execution surprises
- Maintenance finishes on time and supports certification & training

Goal is to meet expected service life with no surprises



SURFMEPP Product Roadmap



Plan Long Range Requirements into Availabilities

Class Maintenance Plan (CMP)

Technical
Foundation Paper
(Class Notional
LRMS)

Ship Sheets
(Ship specific LRMS)

Baseline Availability Work Package (BAWP)

Technical Regts

Class Regts (\$)

Specific Ship Reqts (\$, Schedule)

Plan FRP Cycle

Document & Feedback

Execute

Integrate Package

Plan Availability

Avail. Close Out

Deferral Letter

Assessment Condition

Execute Availability

Availability Work Package (AWP)

Assessment Results
Ship CSMP
Modernization

Integrate, Execute, Document and Feedback

Balancing Technical, Operational, and Financial Risk to increase Ao and decrease \$\$

SURFMEPP utilized best practices from SUBMEPP & CPA



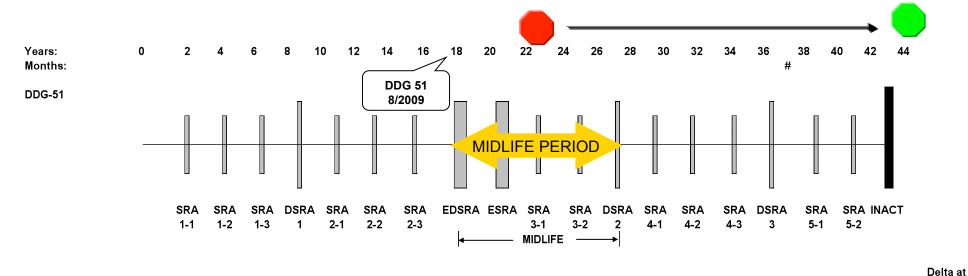
DDG 51 Technical Foundation Paper



35 Years

Baseline 63

74



Months:	25	52	79	106	133	160	187	216	247	274	301	328	355	382	411	438	465	492	516	
PR11 Tailor:	6.7	6.7	6.7	31.5	6.7	6.7	6.7	47.6	6.7	6.7	6.7	31.5	6.7	6.7					-	
OPNAVNOTE 4700 (8/09)	6.5	6.5	6.5	30.9	6.5	6.5	6.5	47.6	6.5	6.5	6.5	30.9	6.5	6.5					-	ı
TFP LRMS	3.8	7.9	8.6	35.2	6.5	11.8	6.7	52.1	27.4	12.2	8.7	39.6	6.7	7.8	8.6	34.5	6.6	11.1		
TFP LRMS w/aging (Notional)	3.8	7.9	8.6	35.2	7.5	12.8	7.7	52.1	27.4	13.2	9.7	39.6	8.7	9.8	10.6	35.5	8.6	13.1		

Supports 35 or 40 year Expected Service Life

EDSRA mid life requirements spread out so that maintenance and program alts can be accomplished within contractual constraints.

Notional done by AVAIL

Dependent on End of Life Strategy

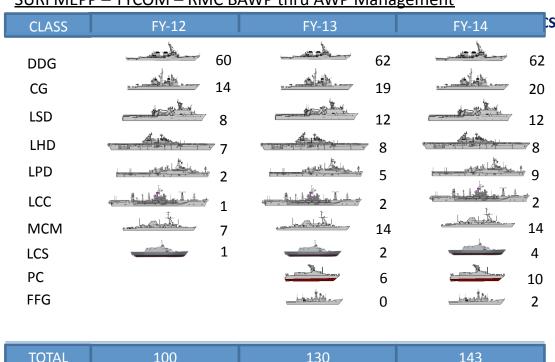


SURFMEPP FY12 Focus Areas and Status



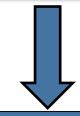
- Baseline Availability Work Packages (BAWPs) and codification of E2E process
- Technical Foundation Papers
 - LPD-17 complete/ MCM TFP ECD Feb 12
 - DDG/CG/LSD/LHD-A completed in FY 10 (DDG 51 TFP Revision/Update in progress)
- Budget quality Ship Sheets for all Surface Ships ISO POM 14 SURFMEPP TYCOM RMC BAWP thru AWP Management

- Class Maintenance Plan Strengthening
- Corrosion Control Leadership
- ABS Management
- Surface Team One Support
- BAWP-AWP KSN



ALL SHIP CLASSES WILL BE IN THE End-to-End SURFACE MAINTENANCE PROCESS

BY FY14



CURRENT STATUS/PROGRESS

- 62 BAWPs Delivered
- 32 BAWPs Turned Over to TYCOMs ISO AWP Development
- 8 Ships currently in Availability Execution
 - (6) LANT / (2) PAC



Summary



- SURFMEPP is documenting and defending better budgets ISO life cycle requirements.
 - We don't "own" the requirement we manage it ISO Technical Warrant Holders
 - Requirements underpinned by technical rigor
 - Ship Sheets track the requirements across the budget cycle
- SURFMEPP integrates stakeholder functions in support of the DISCIPLINED and RIGOROUS End-to-End surface maintenance process.
 - Measurable, Repeatable, Sustainable
- SURFMEPP is helping to change surface maintenance culture, on the waterfront, one ship at a time!
 - 62 BAWPs Delivered
 - 32 BAWPs Turned Over to TYCOMs ISO AWP Development
 - 8 Ships currently in Availability Execution(6) LANT / (2) PAC



Looking to the Future ... ZUMWALT Class Guided Missile Destroyer





Backup



Contact Us

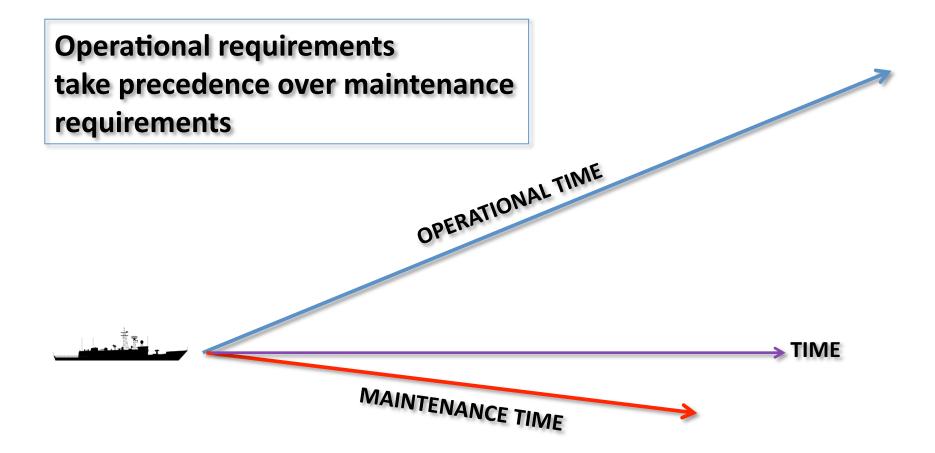


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Operations and Maintenance Almost Inversely Proportional







Support of Fleet Initiatives



Corrosion Control Assistance Teams (CCAT)

- Training
- Technical Expertise
- Tools
- Technology Insertion

Estimate 25% of Ship Maintenance budget spent on corrosion issues











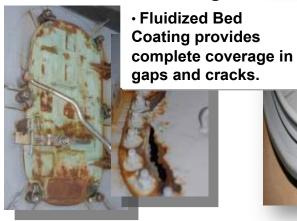




Envelop Anti-Corrosion Covers



Water Tight Doors



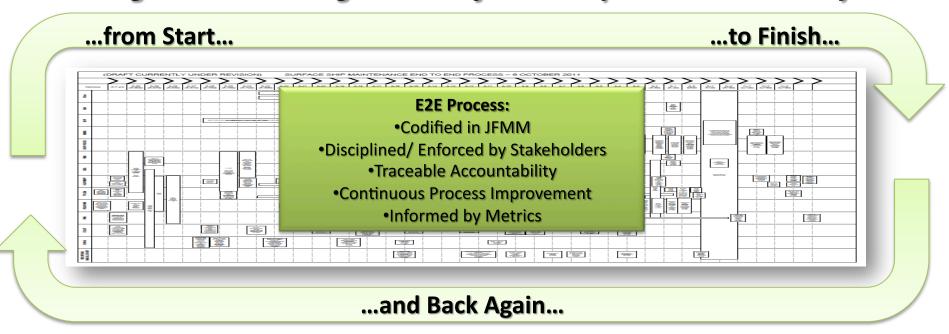




Surface Maintenance, Modernization, and Sustainment End-to-End Process Map



Tracking and Measuring Results of each Ship across the FRP Cycle



Measurements & Metrics at each Milestone

Integrated Risk Assessments to Decision Makers*

Definitized Work Packages Reduced Risk to Quality, Sked, Cost

*Timely Risk Management

E2E Process Map Adherence only successful with joint enforcement from TYCOM, NAVSEA21, SURFMEPP and CNRMC.



Life Cycle Investment Tool Box



Class Maintenance Plan (CMP)

"Maintenance Manual" of each Ship Class

Technical Foundation Paper (TFP)

- Notional "1.0" maintenance requirement by ship class across Expected Service Life (ESL).
- Modeled after SUBMEPP/CPA papers to identify and capture technical requirements
- Period of coverage: Class expected service life (e.g. DDGs: 35 year ESL, LSD 41/49: 40 year ESL)

Ship Sheets

- Maintenance requirement in man-days by hull across the FYDP
- Supports yearly POM/PR process
- Captures requirements from TFP, previously deferred maintenance and known modernization requirements

Baseline Availability Work Package (BAWP)

• Mandatory life-cycle maintenance requirements to support 27-month cycle

Availability Work Package (AWP)

• Refines CNO depot availability package within A-360...balances life-cycle and current readiness